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Substitute for form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/766,317		
		Filing Date	January 27, 2004		
		First Named Inventor	Marinkovich		
		Art Unit	1642		
		Examiner Name	TIDWELL, JUDY LILLE		
Sheet	1	of	5	Attorney Docket Number	Docket 33828/US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MH	A1	U.S. Pat. Pub. No. 2002/0076736	06-20-2002	Findell et al.	
↓	A2	US-4816567	03-28-1989	Cabilly et al.	
	A3	US-6294356	09-25-2001	Jones et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	⁵
MH	B1	WO0026342 A	5-11-2000	Northwestern University		
	B2	WO0187239 A	11-22-2001	Fibrogen, Inc. et al.		
	B3	WO 96/04000	02-15-1996	Shah et al.		
	B4	WO 91/04753	04-18-1991	Baer et al.		
	B5	WO 90/10448	09-20-1990	Bischofberger et al.		

NON PATENT LITERATURE DOCUMENTS					⁶
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MH	C1	Ahmed et al. "Chapter 39, Immunity to Viruses" Fundamental Immunology, 4th edition, W. E. Paul, ed., Lippincott-Raven Publishers, 1999, Chapter 39, pp 1295-1334			
	C2	Alama et al. "Antisense Oligonucleotides as Therapeutic Agents" (1997) <i>Pharmacol Res.</i> 36(3):171-178			
	C3	Amano et al., "Bone morphogenetic protein 1 is an extracellular processing enzyme of the Laminin 5Y2 chain" 2000, <i>J. Biol. Chem.</i> , 275: 22728-35			
	C4	Boado et al., "Drug delivery of antisense molecules to the brain for treatment of Alzheimer's disease and cerebral AIDS" 1998, <i>J. Pharm. Sci.</i> 87 (11): 1308-1315			
	C5	Cassidy et al., "Malanocytes adhere to and synthesize laminin-5 <i>in vitro</i> " <i>Ep. Derm.</i> 1999, 8, 212-221			
	C6	Chan et al. "Laminin-6 and Laminin-5 are recognized by Autoantibodies in a subset of cicatricial pemphigoid" <i>Society for Invs. Derm.</i> , 1997, 848-853			
↓	C7	Chen et al. "NC1 Domain of Type VII Collagen Binds to the β3 chain of laminin 5 via a Unique Subdomain Within the Fibronectin-like repeats" (1999) <i>J. for Invest. Derm.</i> , 177-183			

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			First Named Inventor	Marinkovich	
			Art Unit	1642	
			Examiner Name	TIDWELL, JUDY LILLE	
Sheet	2	of	5	Attorney Docket Number	Docket 33828/US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	²
MH	C8	Crooke, S. T., "Advances in understanding the pharmacological properties of antisense oligonucleotides" 1997, <i>Adv. Pharmacol.</i> 40:1-49	
	C9	Dajee et al., "NF- κ B blockade and oncogenic Ras trigger invasive human epidermal neoplasia" <i>Nature</i> vol. 421, 2003, 639-643	
	C10	Diederichsen, U., "Alanyl-PNA homoduplex: A-T Pairing with the N7-Regioisomer of Adenine" 1998, <i>Bioorganic & Med. Chem. Lett.</i> , 8:165-168	
	C11	Fukushima et al., "Integrin α 3 β 1-mediated interaction with lamin-5 stimulates adhesion, migration and invasion of malignant glioma cells" 1998, <i>Int. J. Cancer</i> , 76: 63-72	
	C12	Huse et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda" 1989, <i>Science</i> , 254: 1275-1281	
	C13	Jordan et al., "New Hetero-oligomeric peptide nucleic acids with improved binding properties to complementary DNA" (1997) <i>Bioorg. Med. Chem. Lett.</i> 7: 687-690	
	C14	Jordan et al. "Synthesis of new building blocks for peptide nucleic acids containing monomers with variations in the backbone" (1997) <i>Bioorg. Med. Chem. Lett.</i> 7: 637-627;	
	C15	Kirtschig et al. "Anti-basement membrane autoantibodies in patients with anti-peilgrin cicatricial pemphigoid bind the α subunit of laminin 5", <i>J. Invest. Derm.</i> (1995) 105, 543-548	
	C16	Kumar et al., "Pyrrolidine Nucleic Acids: DNA/PNA Oligomers with 2-hydroxy/aminoethyl-4(thymine-1-yl) pyrrolidine-N-acetic acid" 2001, <i>Organic Letters</i> 3(9): 1269-1272	
	C17	Lavrosky et al., "Therapeutic potential and mechanism of action of oligonucleotides and ribozymes" 1997, <i>Biochem. Mol. Med.</i> 62(1):11-22.	
	C18	Lee et al., "Polyamide Nucleic Acid Targeted to the Primer Binding Site of the HIV-1 RNA Genome Blocks <i>in vitro</i> HIV-1 Reverse Transcription" 1998, <i>Biochemistry</i> 37 (3):900-1010	
	C19	Li et al. "Laminin-10 is crucial for hair morphogenesis" <i>The EMBO Journal</i> , vol. 22, no. 10, pp. 2400-2410	
	C20	Maddox et al., "Elevated serum levels in human pregnancy of a molecule immunochemically similar to eosinophil granule major basic protein" 1983, <i>J Exp Med</i> , 158: 1211	
	C21	Marcus-Sakura "Techniques for using antisense oligodeoxyribonucleotides to study gene expression" (1988) <i>Anal. Biochem.</i> 172:289	
	C22	Marinkovch et al. "Basement Membrane Proteins Kalinin and Nicein are Structurally and Immunologically Identical: <i>Lab. Invest.</i> , 1993, vol. 69, No. 3, pp. 295-299	
V	C23	Marinkovich et al., "The dermal-epidermal junction of human skin contains a novel laminin variant" <i>J. Cell. Biol.</i> vol. 119, no. 3, 1992, 695-703	

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Sheet	3	of	5	Attorney Docket Number	Docket 33828/US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
MH	C24	Marinkovich M. P. et al, "The Anchoring Filament Protein Kalinin is Synthesized and Secreted as a High Molecular Weight Precursor", <i>Journal of Biological Chemistry</i> , vol. 267, no. 25, 1992, pages 17900-17906	
	C25	McGowan et al. "Laminins and human disease" <i>Microscopy Res. and Tech.</i> 51::262-279 (2000)	
	C26	Meneguzzi et al. "Kalinin is abnormally expressed in epithelial basement membranes of Herliz's junctional epidermolysis bullosa patients" <i>Exp. Derm.</i> 1992, pp. 221-229	
	C27	Meneguzzi et al., "Kalinin is abnormally expressed in epithelial basement membranes of Herliz's junctional epidermolysis bullosa patients", 1992, <i>Exp. Derm.</i> 1, 221-229	
	C28	Miller, "Progress Toward Human Gene Therapy" 1990, <i>Blood</i> , 76: 271	
	C29	Miquel et al., "Establishment and Characterization of cell line LSV5 that retains the altered adhesive properties of human junctional epidermolysis bullosa keratinocytes, <i>Exp. Cell. Res.</i> , 224, 279-290 (1996)	
	C30	Mizushima H. et al., Identification of Integrin-dependent and independent cell adhesion domains in cooh-terminal globular region of alminin-5 alpha3 chain" <i>Cell Growth and Differentiation</i> , The Association, Phil. Pa, US, Vol. 8, no. 9, September 1997 (1997-09), pages 979-987	
	C31	Morris et al., "A new peptide vector for efficient delivery of oligonucleotides into mammalian cells" 1997, <i>Nucl. Acids Res.</i> 25 (14): 2730-2736	
	C32	Nielsen, P. E. and G. Haaima, "Peptide nucleic acid (PNA). a DNA mimic with a pseudopeptide backbone" 1997, <i>Chem. Soc. Rev.</i> 96:73-78	
	C33	O'Toole et al. "Laminin-5 inhibits human keratinocyte migration" <i>Exp. Cell. Res.</i> 233, 330-339 (1997)	
	C34	Orlandi et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction" 1989, <i>Proc. Natl. Acad. Sci.</i> 86: 3833-3837	
	C35	Ortiz-Urda et al. "Injection of genetically engineered fibroblasts corrects regenerated human epidermolysis bullosa skin tissue" <i>J. Clin. Invest.</i> 2003, Vol. 111, No. 2, pps. 251-255	
	C36	Pardridge et al., "Vector-mediated delivery of a polyamide ("peptide") nucleic acid analogue through the blood-brain barrier <i>in vivo</i> " 1995, <i>Proc. Nat. Acad. Sci.</i> 92 (12):5592-5596	
V	C37	Pyke et al., "Laminin-5 is a marker of invading cancer cells in some human carcinomas and is coexpressed with the receptor for urokinase plasminogen activator in budding cancer cells in colon adenocarcinomas" 1995, <i>Canc. Res.</i> 55: 4132-4139; Berndt et al., 1997, <i>Invasion and Metastasis</i> , 17: 251-258	

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MH	C38	Pyke, et al., "The γ 2 chain of kalinin/Laminin 5 is preferentially expressed in invading malignant cells in human cancers" 1994, <i>Am. J. Pathol.</i> 145(4):782-791		
	C39	Rammensee, H., et al. "SYFPEITHI: database for MHC ligands and peptide motifs": (1999) <i>Immunogenetics</i> , 50:213-219		
	C40	Rossi et al., "Exploring the use of antisense, enzymatic RNA molecules (Ribozymes) as therapeutic agents" 1991, <i>Antisense Res. Dev.</i> 1(3):285-288		
	C41	Rossi, "Therapeutic antisense and ribozymes" 1995, <i>Br. Med. Bull.</i> 51 (1): 217-225		
	C42	Russell et al., " α 6 β 4 integrin regulates keratinocyte chemotaxis through differential GTPase activation and antagonism of α 3 β 1 integrin" 2003, <i>J. Cell Sci.</i> 116 (17):3543-3556		
	C43	Ryan et al. "Cloning of the LamA3 Gene Encoding the alpha3 chain of the adhesive ligand epiligrin" <i>J.Bio. Chem.</i> vol. 269, no. 36, pp. 22779-22787 (1984)		
	C44	Slater et al., "The latex allergen Hev b 5 transcript is widely distributed after subcutaneous injection in BALB/c mice of its DNA vaccine" 1998, <i>J. Allergy Clin. Immunol.</i> 102 (3): 469-475		
	C45	Stoltzfus P. et al., "Lamin-5 Gamma2 Chain Expression Facilitates Detection of Invasive Squamous Cell Carcinoma of the Uterine Cervix, <i>International Journal of Gynecological Pathology</i> , Vol. 23, no. 3, July 2004 (2004-07), pages 215-222		
	C46	Uckert and Walther, "Retrovirus-mediated gene transfer in cancer therapy" 1994, <i>Pharmacol. Ther.</i> , 63(3): 323-347		
	C47	van Hest et al., "Efficient introduction of alkene functionality into proteins in vivo" <i>FEBS Lett</i> 428:(1-2) 68-70 May 22 1998		
	C48	Veitch et al., "Mammalian Tolloid Metalloproteinase, and not matrix metalloprotease 2 or membrane type 1 metalloprotease, processes laminin-5 in keratinocytes and skin" 2003, <i>J. Biol. Chem.</i> , 278: 15661-15668		
	C49	Verhoeyen et al., "Reshaping human antibodies: grafting an antilysozyme activity" 1988, <i>Science</i> , 239: 1534-1536		
	C50	Weinberg et al. "How cancer arises: an explosion of research in uncovering the long-hidden molecular underpinnings of cancer and suggesting new therapies" <i>Scientific American</i> (1996) (September) pps 62-70		
	C51	Winter, G. and C. Milstein, "man-made antibodies" 1991, <i>Nature</i> , 349: 293-299		
	C52	Yi-shan et al. "Self-assembly of Laminin Isoforms" <i>J. Bio. Chem.</i> vol. 272, no. 50, pp 31525-31532 (1997)		

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				First Named Inventor	«M_1stInventor» «etal»
				Group Art Unit	«ArtUnit»
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Sheet	1	of	1		

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MH	C1	Cheng et al. "Self-assembly of laminin isoforms", <i>J. Biol. Sci.</i> , vol. 272, no. 50., pp. 31525-31532 (1997)		
	C2	Marinkovich et al. "LAD-1 is absent in a subset of junctional epidermolysis bullosa patients" <i>The Society for Investig Derm.</i> (1995) vol. 15, pp. 1027-1034		
	C3	Marinkovich et al. "Prenatal diagnosis of herlitz junctional epidermolysis bullosa by amniocentesis" <i>Prenatal Diagnosis</i> (1995) vol. 15, 1027-1034		
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	C5	Marinkovich et al. "The molecular genetics of basement membrane diseases" <i>Arch. Derm.</i> (1993) vol 129, 1557		
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